UNITED STATES PATENT AND TRADEMARK OFFICE

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EXAMINER
VAUGHAN, MICHAEL R

ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _3_ MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on _30 March 2007_.
2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.
3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) _1-19_ is/are pending in the application.
    4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5)☐ Claim(s) _____ is/are allowed.
6)☒ Claim(s) _1-19_ is/are rejected.
7)☒ Claim(s) _1_ is/are objected to.
8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☒ The specification is objected to by the Examiner.
10)☒ The drawing(s) filed on _28 April 2006_ is/are: a)☒ accepted or b)☐ objected to by the Examiner.
    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
    a)☒ All   b)☐ Some * c)☐ None of:
       1.☐ Certified copies of the priority documents have been received.
       2.☐ Certified copies of the priority documents have been received in Application No. _____.
       3.☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
    Paper No(s)/Mail Date _4-28-06_.

4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

The instant application having Application No. 10/577857 filed on 4-28-06 is

presented for examination by the examiner.

Priority

Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C.

119(a)-(d). The certified copy has been received.

Specification

The abstract of the disclosure is objected to because it exceeds the maximum

number of words. Correction is required. See MPEP § 608.01(b).

Applicant is reminded of the proper language and format for an abstract of the
disclosure.

The abstract should be in narrative form and generally limited to a single
paragraph on a separate sheet within the range of 50 to 150 words. It is important that
the abstract not exceed 150 words in length since the space provided for the abstract
on the computer tape used by the printer is limited. The form and legal phraseology
often used in patent claims, such as "means" and "said," should be avoided. The
abstract should describe the disclosure sufficiently to assist readers in deciding whether
there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information
given in the title. It should avoid using phrases which can be implied, such as, "The
disclosure concerns," "The disclosure defined by this invention," "The disclosure
describes," etc.

Claim Objections

Claims 1 is objected to because of the following informalities:

Minor typo "a equipment" and

said module lacks antecedent basis. Examiner assumes this is the said security

module.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly
claiming the subject matter which the applicant regards as his invention.

Claims 1 4, 18, and 19 are rejected under 35 U.S.C. 112, second paragraph, as

being indefinite for failing to particularly point out and distinctly claim the subject matter

which applicant regards as the invention.

Regarding claim 1, each step of the method references which entity is performing

that step except the step of generation. It is not definitive what is performing the

generation of the cryptogram.

Regarding claims 4, 18, and 19, the phrase "card type" renders the claim(s)

indefinite because the claim(s) include(s) elements not actually disclosed (those

encompassed by "or the like" synonymous with "type"), thereby rendering the scope of

the claim(s) unascertainable. See MPEP § 2173.05(d).

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees.   A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-6, 8-11, 13, and 16-18 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 21-26, 29, 32, 33, and 36-40 of copending Application No. 10/577158. Although the conflicting claims are not identical, they are not patentably distinct from each other because each set forth the same method as below.

Instant Application 10/577,857	Copending Application 10/577,158
Claim 1 An authentication method of at least one application working in a equipment connected by a network to a control server, said equipment being locally connected to a security module, said	Claim 21 Method for managing the security of applications with a security module functioning in an equipment connected to a network, said network being managed by a control server of an operator, said

application being at least one of loaded loadable and executable via an application execution environment of the equipment and being adapted to use resources stored in the security module, the method comprising:	applications using resources as data or functions stored in a security module locally connected to said equipment, comprising the following preliminary steps:
reception by the control server, via the network, of data comprising at least the identifier of the equipment and the identifier of the security module,	reception of data comprising at least the type and software version of the equipment and the identity of the security module, via the network, by the control server,
analysis and verification by the control server of said data,	analysis and verification by the control server of said data,
generation of a cryptogram comprising a digest of the application and, data **identifying the equipment and the security module and instructions intended for said module,**	generation of a cryptogram from the result of the verification of said data, and
transmission of said cryptogram, via the network and the equipment, to the security module, and	transmission of said cryptogram, via the network and the equipment, to the security module,
verification of the application by comparing the digest extracted from the cryptogram received with a digest determined by the security module, wherein, during at **least one of initialization and activation of the application,**	said method further comprises steps wherein the security module analyses the received cryptogram and **activates, respectively deactivates the resources as data or functions used by at least one application installed in the equipment,**
the security module executes the instructions extracted from the cryptogram and at least one of **releases and blocks access to certain resources**	said cryptogram comprising the instructions conditioning the functioning of the application according to criteria established by the supplier of said application and/or the operator and/or the user of the equipment.

of said security module according to a result of the verification suited to this application carried out previously.	

Examiner contends that "releases and blocks access" is an obvious equivalence to "activates and deactivates". Claims 2-6, 8-11, 13, and 16-18 are virtually identical to claims 22-26, 29, 32, 33, and 36-40 of the copending application are likewise provisionally rejected.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 17 and 18 are rejected under 35 U.S.C. 102(e) as being anticipated by USP Application Publication 2003/0114144 to Minemura.

As per claim 17, Minemura teaches a security module [authentication module]

comprising resources intended to be accessed locally by at least one application

installed in an equipment [terminal] connected to a network (see abstract),

said equipment including means for reading and transmitting data including at

least an identifier of the equipment and an identifier of the security module, said module

further comprising means for reception, storage, and analysis of a cryptogram (Figure 6)

containing among other data, a digest of said application (0193) and instructions (0125),

means for verification of said application (0192), and

means for extraction and execution of the instructions contained in the cryptogram, for

at least one of blocking certain resources according to the result of the verification of the

application (0085-0089).

As per claim 18, Minemura teaches the security module [IC] is at least one being

of the "subscriber module" and " SIM card" type intended to be connected to a mobile

equipment (0013).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set
forth in this Office action:
(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth
in section 102 of this title, if the differences between the subject matter sought to be patented and the
prior art are such that the subject matter as a whole would have been obvious at the time the invention
was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability
shall not be negatived by the manner in which the invention was made.

Claims 1-11 and 13-19 are rejected under 35 U.S.C. 103(a) as being

unpatentable over USP Application Publication 2003/0114144 to Minemura.

As per claim 1 Minemura teaches an authentication method of at least one

application working in a equipment [terminal] connected by a network to a control server

[server/service company], said equipment being locally connected to a security module

[authentication module], said application being at least one of loaded loadable and

executable via an application execution environment of the equipment and being

adapted to use resources stored in the security module, the method comprising (see

abstract):

reception by the control server, via the network, of data comprising at least the

identifier of the equipment and the identifier of the security module (0192-0193),

analysis and verification by the control server of said data (0192),

generation of a cryptogram comprising a digest of the application (0084-0085 and Fig.

6), data identifying [unique information] the equipment and the security module

[identifier] and instructions intended for said module (0125),

transmission of said cryptogram, via the network and the equipment, to the security

module (0085), and

verification of the application by comparing the digest extracted from the cryptogram

received with a digest determined by the security module (0085),

wherein, during at least one of initialization and activation of the application, the security

module executes the instructions extracted from the cryptogram and at least one of

releases and blocks access to certain resources of said security module according to a result of the verification suited to this application carried out previously (0085). In one of the first of many embodiments Minemura teaches that a server downloads the application and authentication information (the hash of the application) to the terminal device (0085). In a later embodiment, Minemura teaches that the terminal and its authentication module must first authentication itself to the server before the server will initiate any data transfer (0192). Furthermore Minemura teaches that the authentication module must and is thereby authenticated with the terminal device which is authenticated by the server. So there is authentication between all three entities. Minemura explicitly teaches that the terminal device and authentication module can be identified by unique information i.e. production number, unit type number, identifier stored in ROM, and version number. Even though Minemura does not explicitly teach that the cryptogram sent for module includes this identifying data when the digest is sent, one of ordinary skill in the art would further use identifying material to thwart a malicious sender from deceiving the terminal. Minemura uses this information for authentication purposes between the authentication module and the terminal device. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to include the identifying information of the terminal [equipment] and authentication module [security module] when the digest is sent from the server to the device to prevent a man-in-the-middle attack whereby a false server sends a malicious data. Once the terminal authenticates itself by providing unique identifying information,

the server can include this information in encrypted form back to the terminal to prove

the server is in fact the server to which the terminal intended to communicate with.

As per claim 2, Minemura teaches the equipment is a mobile equipment of

mobile telephony (0013).

As per claim 3, Minemura teaches the network is a mobile network of at least one

of the type GSM or GPRS or UMTS (0013). It is notoriously well known that cell phones

use these types of networks to communicate.

As per claim 4, Minemura teaches the security module is a subscriber module

inserted into the mobile equipment of mobile telephony of the SIM card type (0013).

As per claim 5, Minemura teaches the identification of at least one of the set

mobile equipment and subscriber module is carried out from the identifier of the mobile

equipment and from the identifier of the subscriber module suited to a subscriber to the

network (0193).

As per claim 6, Minemura teaches the instructions included in the cryptogram

received by the security module condition the use of the applications according to

criteria established previously by at least one of the operator, the application supplier,

and the user of the equipment (0125, 0141).

As per claim 7, Minemura teaches the criteria define limits of use of an

application according to the risks associated with at least one of the software of said

application and with the hardware of the equipment that the operator desires to take into

account (0125, 0141 and solves the problem of 0008).

As per claim 8, Minemura teaches the verification of the application with the cryptogram is carried out at the time of at least one of the first initialization and the first use of said application (0210).

As per claim 9, Minemura teaches the verification of the application with the cryptogram is periodically carried out at a given rate [expiry rate] according to instructions originating from the control server (0143-0144).

As per claim 10, Minemura teaches the verification of the application with the cryptogram is carried out at the time of each initialization of said application on the equipment (0144).

As per claim 11, Minemura teaches the cryptogram is generated with the aid of an asymmetrical or symmetrical encryption key from a data set (0199) containing, among other data, the identifier of the equipment, the identifier of the security module, an identifier of the application (0141), the digest of the application calculated with an unidirectional hash function and identifiers of the resources of the security module and instructions for locking/releasing of resources of the security module (0191).

As per claim 13, Minemura teaches the security module transmits to the control server, via the equipment and the network, a confirmation message when said security module has accepted or refused a cryptogram of an application (0087, provision of service).

As per claim 14, Minemura teaches the cryptogram is transmitted to the security module at the same time as the application is loaded into the equipment via the execution environment of the applications (0210).

As per claim 15, Minemura teaches the application, once loaded into the equipment from the control server via the network, requests a cryptogram from the server at the time of its initialization and transmits said cryptogram to the security module (0089), the confirmation message of acceptance or refusal of the cryptogram being transmitted by the security module to the server via the application (0210).

As per claim 16, Minemura teaches the equipment is a Pay-TV decoder or a computer to which the security module is connected (0078).

As per claim 19, Minemura teaches the security module is a subscriber module [IC] inserted into the mobile equipment of mobile telephony of the SIM card type (0013).

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Minemura in view of USP Application Publication 2002/0012433 to Haverinen et al, hereinafter Haverinen.

As per claim 12, Minemura is silent in disclosing a predictable variable in the cryptogram. Minemura does teach using a random number to prevent replay attacks (0192). Haverinen teaches that timestamps can be used as a substitute to random number in authentication to prevent replay attacks. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to use the timestamps in the cryptograms as a means to prevent malicious replay attacks by a third party. Timestamps are a known to be an adequate method of performing the same function of a random number in the art of computer security.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

JP 2002-152196 discloses a base station authenticates the portable device using the public and the secret keys of the device and determines whether the program has a corresponding source origin, based on the hash value confirmation result.

Using the public key, the base station authenticates the program if it has the corresponding origin.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL R. VAUGHAN whose telephone number is (571)270-7316. The examiner can normally be reached on Monday - Thursday, 7:30am - 5:00pm, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO

Customer Service Representative or access to the automated information system, call

800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M. R. V./

Examiner, Art Unit 2131

/Ayaz R. Sheikh/

Supervisory Patent Examiner, Art Unit 2131